

Abstract

Structured-surface light-emitting diode with improved current coupling

In a light-emitting diode (100) having a light-generating layer (20) and a relatively thick, transparent current-spreading layer (30), vertical structuring of the top surface of the current-spreading layer (30) serves to improve the decoupling of light, while at the same time, a second electrical contact layer (50) with a distributed, lateral structure operates to achieve substantially uniform coupling of electrical current into the current-spreading layer (30).

FIG. 2